CONTENTS

Preface vii
Effects of ionizable groups on the adsorption of surfactants onto latex particle surfaces
S.I. Ali, J.C. Steach and R.L. Zollars (Pullman, WA, U.S.A.) 1
Adsorption of ethoxylated sulfonates on kaolinite and alumina
K.V. Viswanathan and P. Somasundaran (New York, NY, U.S.A.) 19
Adsorption calorimetry of surfactant interaction with minerals
L.A. Noll (Bartlesville, OK, U.S.A.) 43
The role of mineral dissolution in the adsorption of dodecylbenzenesulfonate on kaolinite and alumina
P.A. Siracusa (S. Charleston, WV, U.S.A.) and P. Somasundaran (New York, NY, U.S.A.) 55
The influence of dodecylamine hydrochloride adsorption on the dissolution rate behavior of heat-treated and non-heat-treated hydroxyapatite
M. Otsuka, J. Wong, W.I. Higuchi, D.C. Cheng, K. Yamamoto and J.L. Fox (Salt Lake City, UT, U.S.A.) 79
Fluoride ion binding and adsorption affinity of polyelectrolytes
H.R. Rawls (New Orleans, LA, U.S.A.), I. Cabasso (Syracuse, NY, U.S.A.), B.F. Zimmerman and K.B. LeScale (New Orleans, LA, U.S.A.) 89
Adsorption of PMDM, the adduct of pyromellitic dianhydride with 2-hydroxyethyl methacrylate, on hydroxyapatite
D.N. Misra and R.L. Bowen (Gaithersburg, MD, U.S.A.) 101
Interactions of perfluoroalkyl surfactants to teeth in vitro and in vivo
A. Gaffar, A. Esposito, M. Bahl (Piscataway, NJ, U.S.A.), L. Steinberg and I. Mandel (New York, NY, U.S.A.) 109
Surface poisoning of synthetic and biological apatites
N.C. Blumenthal and A.S. Posner (New York, NY, U.S.A.) 123
An electrochemical investigation of the adsorption of octyl hydroxamate on chalcocite
J.S. Hanson and D.W. Fuerstenau (Berkeley, CA, U.S.A.) 133
Adsorption of ethylxanthate onto galena at low surface coverages
S. Partyka, M. Arnaud, M. Lindheimer (Montpellier, France) and J.L. Cecile (Orléans, France) 141
Characterization by ellipsometry of polymerized ultra-thin films formed in a two-dimensional solvent on an oxide surface
J. Wu, J.H. Harwell and E.A. O'Rear (Norman, OK, U.S.A.) 155
Thermodynamics and hydrodynamics of a nonionic microemulsion
D.B. Siano, J. Bock, P. Myer (Annandale, NJ, U.S.A.) and W.B. Russel (Princeton, NJ, U.S.A.) 171
Krafft points and microemulsion phase behavior of some alkylarenesulfonates
P.L. Valint, Jr, J. Bock, M.W. Kim, M.L. Robbins, P. Steyn and S. Zushma (Annandale, NJ, U.S.A.) 191
Wetting behavior of coal in the presence of some nonionic surfactants
S. Chander, B.R. Mohal and F.F. Aplan (University Park, PA, U.S.A.) 205
Coal wetting ability of surfactant solutions and the effect of multivalent anion additions
H.W. Kilau and J.E. Pahlman (Minneapolis, MN, U.S.A.) 217
The surface chemical properties of scheelite ($CaWO_4$). II. Collector adsorption and recovery of fine scheelite particles at the iso-octane/water interface
K.I. Marinakis and G.H. Kelsall (London, United Kingdom) 243
Surface and flotation properties of AgCl as a function of induced point defects
E.Y. Spearin (East Chicago, IN, U.S.A.), G. Simkovich and F.F. Aplan (University Park, PA, U.S.A.) 257

Effect of physico-chemical characteristics of surfactant emulsion on antimony oxide flotation
L. Xiao (New York, NY, U.S.A.), P. Liao (Changsha, P.R. China) and W. Hu (Salt Lake City, UT, U.S.A.) 273
Surfactant mixtures as collectors in flotation
W. von Rybinski, M.J. Schwuger (Düsseldorf, F.R.G.) and B. Dobias (Regensburg, F.R.G.) 291
The effect of surfactant and polymer addition to a fuel grade peat: Adsorption, electrokinetics and dewatering
A.L. Ayub, J.D. Sheppard and J.C.T. Kwak (Halifax, Canada) 305
Mechanism of selective flocculation of hematite from quartz with hydrolyzed polyacrylamide
R. Jin, W. Hu and X. Hou (Changsha, P.R. China) 317
Effects of the type of water on the selective flotation of pyrochlore from Niobec
R. Espinosa-Gomez, J.A. Finch and A.R. Laplante (Montreal, Canada) 333
Theory of oil detachment from a solid surface. In situ emulsification and enhanced production of heavy oils by a novel "chemical huff-and-Puff" method
M.V. Ostrovsky and E. Nestaas (Fernandina Beach, FL, U.S.A.) 351

Author Index 373
Subject Index 374